

# THOMAS E. KNICKMAN

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## EDUCATION

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### Franklin & Marshall University

Lancaster, PA

#### B.S. Computer Science

June 2014

- **Cumulative GPA:** 3.45, **Major GPA:** 3.75
- **Leadership:** Computer Science II Teaching Assistant, Admissions Tour Coordinator & Head Tour Guide, Resident Advisor, Student Conduct Committee Member, Mock Trial Team VP
- **Relevant Coursework:** Discrete Math, Adv. Data Structures, Operating Systems, Theory of Computer Science, Computer Organization, Bioinformatics, Algorithms, Computer Networks, Symbolic Logic

## TECHNICAL SKILLS

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- **Languages:** Python, Objective C, C, C++, Ruby, PHP, HTML, CSS, JavaScript, JQuery, SQL, MySQL, SQLite, SQL Server, AppleScript, Shell
- **Frameworks:** Python (Pyramid/Flask), Ruby (Ruby on Rails/Sinatra), JavaScript (Backbone.js, JQuery, React)
- **Platforms:** OSX, iOS, Web, Windows, Linux, Unix, Android
- **Software & Other:** xCode, Git, JIRA, Jenkins, Eclipse, Photoshop CS5, Dreamweaver CS5, Premier/After Effects CS5, Final Cut Pro
- **Practices:** Agile Development, Test Driven Development, Pair Programming

## RELEVANT EXPERIENCE

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### SurveyMonkey

Palo Alto, CA

#### Full Stack Software Engineer – Benchmarks Team

June 2014 – Present

- Service owner of two core python backend services (benchmark service and autocomplete service)
- Contributed production code to over 9 python services
- Led project to deploy 4 node distributed system (SOLR Cloud managed by Zookeeper) from conception to production
- Increased test coverage on core SurveyMonkey services by over 70%
- Helped write deployment scripts with Ansible and internal CLI development tools to aid developers

### Traitify (Previously Woofound)

Baltimore, MD

#### Software Engineering Intern – Development Team

December 2013 – January 2014

- Worked with the development team of Traitify, a profiling service that connects clients to interests, and relevant education
- Worked with Traitify to develop, test, and document their public API
- Created a web application with a backend in Ruby/Sinatra and a front end built from Bootstrap to dynamically generate documentation for both versions of the **Traitify** public API.

### SurveyMonkey

Palo Alto, CA

#### Software Engineering Intern – Platform Team

May 2013 – August 2013

- Worked with platform team for online survey tool company serving more than 15 million customers
- Assisted in the development and launch of SurveyMonkey's new public API, enabling third party developers to manipulate output response data, survey information, and response count
- Created application in Python/Pyramid that linked SurveyMonkey and Evernote functionality by leveraging respective APIs

### ATEKDesign.com

Jarrettsville, MD

#### Founder

May 2011 – Present

- Lead business that designs, manufactures, and sells hand-crafted, wooden iPad stands
- Designed and coded ecommerce site using PHP, HTML, JavaScript, JQuery, MySQL and PayPal API
- Set pricing, organize marketing initiatives, and manage vendor relations

### SimpleVocab.com

Jarrettsville, MD

#### Founder

January 2010 – Present

- Coded a web application that enables users to generate custom vocabulary lists with formatted definitions for easy studying
- Utilized PHP, JavaScript, HTML, CSS, and Photoshop to create web and mobile-friendly viewing formats
- Developed introductory understanding of online advertising and search engine optimization

### Silver Top Manufacturing Co.

White Marsh, MD

#### Software Engineer – Independent Contractor

September 2011

- Programmed a prototype application that delivers real-time price quotes to potential customers of an awning and patio company
- Partnered with the company's president to write the application's requirements and use cases
- Executed the prototype using PHP, JavaScript, and HTML

### The Office of Maryland State Senator Nancy C. Jacobs

Annapolis, MD

#### Legislative Aid & Publicity, Marketing, and Business Intern

March 2010 – June 2010 & September 2011

- Wrote custom Python scripts to feed autodialing software used to automatically poll 1000's of voters and gain sign posting permission
- Reviewed bills and communicated the Senator's position with constituents and other officials

## OTHER PROFESSIONAL EXPERIENCE

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**Robert W. Baird & Co.**

**Towson, MD**

***Summer Analyst – Private Wealth Management***

***May 2011 – August 2011***

- Developed working knowledge of investment management and financial planning for high net worth clientele
- Drafted presentation materials which proposed asset allocation strategies tailored to client profiles
- Earned 2<sup>nd</sup> place in Mock Portfolio Challenge by generating a one month return of 7.75%, exceeding S&P 500 benchmark by 350bps

**Baltimore County Circuit Court Judge Judith C. Ensor**

**Towson, MD**

***Court Intern***

***June 2010***

- Observed, documented, and reviewed the proceedings of daily trials with Judge Ensor

## ADDITIONAL

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**Accolades:** HOBY Leadership Conference Scholarship Winner (2007), Johns Hopkins Univ. Robotics Programming - Guest Lecturer (2007), First Lego League at Univ. of Maryland – Technical Judge (2008)

**Personal:** Enjoy Tennis, Hiking, Camping, Cycling, and Woodworking